

Title (en)  
Hologram and device comprising a hologram

Title (de)  
Hologramm und Verfahren mit einem Hologramm

Title (fr)  
Hologramme et dispositif comprenant un hologramme

Publication  
**EP 2590031 A1 20130508 (EN)**

Application  
**EP 11008765 A 20111103**

Priority  
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Abstract (en)  
A hologram comprises a holographic layer stack including a holographic layer (14), holographic structures being formed in the holographic layer, and a functional layer (17), wherein the functional layer is configured to change its optical properties when being exposed to an environmental influence, wherein the holographic layer and the functional layer are stacked. The hologram may be attached to a device (10), for example, an electric mobile device. Examples of the electric mobile device comprise a mobile phone, a personal digital assistant, an MP3 player, a camera, and a watch.

IPC 8 full level  
**G03H 1/00** (2006.01); **B60S 1/08** (2006.01); **G01D 5/347** (2006.01); **G01N 21/47** (2006.01)

CPC (source: EP US)  
**G01N 21/4788** (2013.01 - EP US); **G03H 1/00** (2013.01 - EP US); **G03H 2001/0044** (2013.01 - EP US); **G03H 2001/186** (2013.01 - EP US); **Y10T 156/10** (2015.01 - EP US)

Citation (applicant)

- US 2002191234 A1 20021219 - ISHIMOTO MIWA [JP], et al
- WO 2010094948 A1 20100826 - SMART HOLOGRAMS LTD [GB], et al
- US 2007207295 A1 20070906 - LU EDISON [TW]
- US 7772215 B2 20100810 - FUEDA YOSHIYUKI [JP]
- US 7744997 B2 20100629 - BIRKHOLZ RUSSELL D [US], et al
- US 5453340 A 19950926 - KAWABATA MASAMI [JP], et al
- US 7824822 B2 20101102 - OTAKI HIROYUKI [JP], et al
- US 7521155 B2 20090421 - OTAKI HIROYUKI [JP], et al
- US 5702846 A 19971230 - SATO AKIHIKO [JP], et al

Citation (search report)  
[X1] WO 2005122099 A2 20051222 - UNIV CAMBRIDGE TECH [GB], et al

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